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1 [Experimental designs for simulation](#)

Joan M. Donohue

 December 1994 **Proceedings of the 26th conference on Winter simulation**

 Full text available: [pdf\(690.23 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Sensitivity analysis and optimization in simulation: design of experiments and case studies](#)

Jack P. C. Kleijnen

 December 1995 **Proceedings of the 27th conference on Winter simulation**

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3 [Industrial/government track: Experimental design for solicitation campaigns](#)

Uwe F. Mayer, Armand Sarkissian

 August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

 Full text available: [pdf\(80.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data mining techniques are routinely used by fundraisers to select those prospects from a large pool of candidates who are most likely to make a financial contribution. These techniques often rely on statistical models based on trial performance data. This trial performance data is typically obtained by soliciting a smaller sample of the possible prospect pool. Collecting this trial data involves a cost; therefore the fundraiser is interested in keeping the trial size small while still collectin ...

Keywords: data collection, experimental design, solicitation campaign

4 [Regression metamodels and design of experiments](#)

Willem J. H. van Groenendaal, Jack P. C. Kleijnen

 November 1996 **Proceedings of the 28th conference on Winter simulation**

 Full text available: [pdf\(626.14 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

- 5 [Designing simulation experiments for evaluating manufacturing systems](#)
James J. Swain, Phillip A. Farrington
December 1994 **Proceedings of the 26th conference on Winter simulation**
Full text available: [pdf\(828.11 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 6 [Design of simulation experiments with manufacturing applications](#)
Phillip A Farrington, James J. Swain
December 1993 **Proceedings of the 25th conference on Winter simulation**
Full text available: [pdf\(736.48 KB\)](#) Additional Information: [full citation](#), [references](#)
- 7 [Experimental design in computer simulation](#)
William E. Biles
December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1**
Full text available: [pdf\(498.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the application of experimental design techniques to computer simulation. Three principal areas of experimental design are considered: (1) factor screening experiments; (2) experiments of comparison; and (3) response surface methodology.
- 8 [Design of simulation experiments](#)
William E. Biles
January 1984 **Proceedings of the 16th conference on Winter simulation**
Full text available: [pdf\(400.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the application of experimental design techniques to computer simulation. Three principal areas of experimental design are considered: (1) factor screening experiments; (2) experiments of comparison; and (3) response surface methodology.
- 9 [Design of computer simulation experiments for industrial systems](#)
Donald S. Burdick, Thomas H. Naylor
May 1966 **Communications of the ACM**, Volume 9 Issue 5
Full text available: [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)
- 10 [Introductory tutorials: Experimental design for simulation: experimental design for simulation](#)
W. David Kelton, Russell R. Barton
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: [pdf\(281.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This tutorial introduces some of the ideas, issues, challenges, solutions, and opportunities in deciding how to experiment with simulation models to learn about their behavior. Careful planning, or designing, of simulation experiments is generally a great help, saving time and effort by providing efficient ways to estimate the effects of changes in the model's inputs on its outputs. Traditional experimental-design methods are discussed in the context of simulation experiments, as are the broad ...

11 Advanced tutorials: Experimental design and analysis: an overview of newer, advanced screening methods for the initial phase in an experimental design

Linda Trocine, Linda C. Malone

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Full text available:  [pdf\(283.78 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Screening is the first phase of an experimental study on systems and simulation models. Its purpose is to eliminate negligible factors so that efforts may be concentrated upon just the important ones. Successfully screening more than about 20 or 30 factors has been investigated only in the past 10 or 15 years with most improvements in the past 5 years. A handful of alternative methods including sequential bifurcation, iterated fractional factorial designs, and the Trocine Screening Procedure are ...

12 Designing simulation experiments

W. David Kelton

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

Full text available:  [pdf\(75.99 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Design and software engineering: Experimental designs in software engineering: d-optimal designs and covering arrays

Dean Hoskins, Renée C. Turban, Charles J. Colbourn

November 2004 **Proceedings of the 2004 ACM workshop on Interdisciplinary software engineering research**

Full text available:  [pdf\(200.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For over a century, Design of Experiment (DOE) techniques have been applied to testing in large problem domains such as agriculture, chemistry, medicine, and industrial design. Recently, the application of DOE has appeared in component-based software testing. This is a natural extension, as software testing is a complex problem that suffers from a combinatorial explosion. Exhaustive testing is not possible in most systems. In this paper, we focus on three areas: (1) the application of DOE tec ...

Keywords: covering arrays, d-optimal designs, factorial experiments

14 Application of a 2-stage group-screening design to a whole-line semiconductor manufacturing simulation model

Theodora Ivanova, Mansoor Mollaghasemi, Linda C. Malone

November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available:  [pdf\(592.99 KB\)](#)

Additional Information: [full citation](#), [references](#)

15 Identifying important factors in deterministic investment problems using design of experiments

Willem J. H. Van Groenendaal, Jack P. C. Kleijnen

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available:  [pdf\(66.06 KB\)](#)

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Designing simulation experiments: Taguchi methods and response surface
metamodels

John S. Ramberg, Susan M. Sanchez, Paul J. Sanchez, Ludwig J. Hollick

December 1991 **Proceedings of the 23rd conference on Winter simulation**

Full text available:  [pdf\(986.30 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



17 Comparison of a two-stage group-screening design to a standard 2k-p design for a
whole-line semiconductor manufacturing simulation model

Theodora Ivanova, Linda Malone, Mansooreh Mollaghasemi

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---
a bridge to the future - Volume 1**

Full text available:  [pdf\(73.37 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Bounding CPU utilization as a part of the model design and the scenario design of a
large-scale military training simulation

William R. Merritt

December 1998 **Proceedings of the 30th conference on Winter simulation**


Full text available:  [pdf\(71.93 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



19 Regression-based RTL power modeling

Alessandro Bogliolo, Luca Benini, Giovanni De Micheli

July 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,
Volume 5 Issue 3

Full text available:  [pdf\(391.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Register-transfer level (RTL) power estimation is a key feature for synthesis-based design flows. The main challenge in establishing a sound RTL power estimation methodology is the construction of accurate, yet efficient, models of the power dissipation of functional macros. Such models should be automatically built, and should produce reliable average power estimates. In this paper we propose a general methodology for building and tuning RTL power models. We address both hard macros (presy ...

Keywords: RTL design, RTL power modeling, adaptive characterization, functional macros, regression models



20 On test suite composition and cost-effective regression testing

Gregg Roethermel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kallakuri, Xuemei Qiu

July 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 13 Issue 3

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing is an expensive testing process used to revalidate software as it evolves. Various methodologies for improving regression testing processes have been explored, but the cost-effectiveness of these methodologies has been shown to vary with characteristics of regression test suites. One such characteristic involves the way in which test inputs are composed into test cases within a test suite. This article reports the results of controlled experiments examining the effects of t ...

Keywords: Empirical studies, regression testing, test suite composition



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